

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	55	("LED" or "light emitting") and ((p or n) adj ((transparent) or ("Indium-Tin Oxide" or "ITO") or ("Cadmium-Tin Oxide" or "CTO") or ("Titanium Tungsten Nitride" or "TiWN"))) and (Gan or "gallium nitride"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/02 14:44
L2	17	1 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/02 14:45
L3	55	("LED" or "light emitting") and (((p or n) adj ((transparent) or ("Indium-Tin Oxide" or "ITO") or ("Cadmium-Tin Oxide" or "CTO") or ("Titanium Tungsten Nitride" or "TiWN")))) and (Gan or "gallium nitride"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/02 14:48
L4	55	("LED" or "light emitting") and ((p or n) adj ((transparent) or ("Indium-Tin Oxide" or "ITO") or ("Cadmium-Tin Oxide" or "CTO") or ("Titanium Tungsten Nitride" or "TiWN")))) and (Gan or "gallium nitride"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/02 14:49
L5	17	4 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/02 14:49

L6	556	("LED" or "light emitting") and ((p or n) adj ((transparent) or ("Indium-Tin Oxide" or "ITO") or ("Cadmium-Tin Oxide" or "CTO") or ("Titanium Tungsten Nitride" or "TiWN")))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/02 14:50
L7	55	6 and (Gan or "gallium nitride")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/02 14:51
L8	17	7 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/02 14:51
L11	1982	("LED" or "light emitting") with (NP or NPN)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/07/02 15:51
S1	308715	"257"/((13,79-103,918). ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 14:52
S2	0	("LED" or "light emitting") and ((P+ or n+) with (Gan or "gallium nitride")) and ((p or n) adj (Gan or "gallium nitride")) and ((transparent) adj (electrode or conduct \$3)) and ((Ga or gallium) adj (layer)) and ((al or aluminum) adj (layer)) and ((Au or gold) adj (layer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:04

S3	1	("LED" or "light emitting") and ((P or n) with (Gan or "gallium nitride")) and ((p or n) adj (Gan or "gallium nitride")) and ((transparent) adj (electrode or conduct \$3)) and ((Ga or gallium) adj (layer)) and ((al or aluminum) adj (layer)) and ((Au or gold) adj (layer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:04
S4	5	("LED" or "light emitting") and ((P or n) with (Gan or "gallium nitride")) and ((p or n) adj (Gan or "gallium nitride")) and ((transparent) adj (electrode or conduct \$3)) and ((Ga or gallium) adj (layer)) and (al or aluminum) and (Au or gold)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:07
S5	0	S4 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:08
S6	26	("LED" or "light emitting") and ((P or n) and (Gan or "gallium nitride")) and ((transparent) adj (electrode or conduct \$3)) and ((Ga or gallium) adj (layer)) and (al or aluminum) and (Au or gold)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:10
S7	6	S6 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:10

S8	46	("LED" or "light emitting") and ((P or n) and (Gan or "gallium nitride")) and ((transparent) adj (electrode or conduct \$3)) and (al or aluminum) and p+	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:12
S9	830	("LED" or "light emitting") and (Ingan or Algan) and ((metal or electrode or conduct \$3) adj (layer)) and ((second) adj (metal or electrode or conduct \$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:15
S10	41	(p+ or n+) and S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:16
S11	42	"High concentration" and S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:17
S12	80	S10 or S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:17
S13	19	S10 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:17
S14	18	S11 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:17
S15	2	"20020096687"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:19

S16	17	"20020096687" or "6420736"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:20
S17	1428	("LED" or "light emitting") and (gan or "gallium nitride") and ((metal or electrode or conduct\$3) adj (layer)) and ((second) adj (metal or electrode or conduct\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:21
S18	66	(p+ or n+) and S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:21
S19	29	S18 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 15:21
S20	8	S16 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 16:00
S21	15	("5789768"   "6169298"   "6204512"   "6207972"   "6225648"   "6287947").PN. OR ("6420736").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/01/05 16:21
S22	4	("LED" or "light emitting") and (AlgaN or IngaN) and ((ga or gallium) adj (layer)) and ((metal or conduct \$3 or electrode) adj (layer)) and ((Al or aluminum) adj (layer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 16:32

S23	2937	("LED" or "light emitting") and (AlGaN or InGaN) and ((Ga or gallium) with (layer)) and ((metal or conduct\$3 or electrode) with (layer)) and ((Al or aluminum) with (layer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 16:35
S24	783	S23 and S1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 16:36
S25	80	("preventive layer" or "protective layer") and S24	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 16:37
S26	48	S25 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 16:37
S27	0	". "	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 16:37
S28	5	("LED" or "light emitting") and (GaN) and ((Ga or gallium) adj (layer)) and ((metal or conduct\$3 or electrode) adj (layer)) and ((Al or aluminum) adj (layer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 16:49
S29	400	("LED" or "light emitting") and (GaN) and ((metal or conduct\$3 or electrode) adj (layer)) and ((Al or aluminum) adj (layer))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 16:51
S30	188	((second) adj (metal or conduct\$3 or electrode)) and S29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 16:53

S31	99	((second) adj ((metal or conduct\$3 or electrode) adj (layer))) and S29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 16:54
S32	48	S31 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 16:54
S33	47370	("LED" or "light emitting") and (AlGaN or InGaN) and ((Al or aluminum) with (layer)) ((second) adj ((metal or conduct\$3 or electrode) adj (layer)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 17:11
S34	246	("LED" or "light emitting") and (AlGaN or InGaN) and ((Al or aluminum) with (layer)) and ((second) adj ((metal or conduct \$3 or electrode) adj (layer)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 17:11
S35	87	S34 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 17:12
S36	9	"6100174"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 18:04
S37	2	("LED" or "light emitting") and (metal-Ga) and (GaN adj layer) and Al	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 18:26
S38	36884	("LED" or "light emitting") and ((gallium or Ga) with (compound or layer)) and (Al or aluminum)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 18:29

S39	49	("LED" or "light emitting") and (GaTi or GaTiN) and (Al or aluminum) and Gan	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 18:30
S40	1	S39 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 18:30
S41	3	"2001022367"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 18:51
S42	264	("LED" or "light emitting") and ((Ga) adj (metal)) and Gan	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 19:00
S43	7	("LED" or "light emitting") with ((Ga) adj (metal)) and Gan	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 19:00
S44	0	S43 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 19:00
S45	2	((al or aluminum) adj (layer)) and S42	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 19:01
S46	253	(al or aluminum) and S42	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 19:02



S47	130	S46 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 19:02
S48	2346499	KR "22631"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 19:17
S49	416	("LED" or "light emitting") and (GaIn or Gati ot Gatin) and (al or aluminum) and (Gan adj layer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 19:21
S50	1	(third adj (metal or conductor or electrode) adj layer) and S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 19:22
S51	4	(second adj (metal or conductor or electrode) adj layer) and S49	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 19:25
S52	2	S51 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 19:25
S53	299	("LED" or "light emitting") and ("Gallium indium" or "gallium titanium") and (al or aluminum) and (Gan adj layer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 19:29
S54	141	S53 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/05 19:29

S55	2	"20070029568"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/06 18:49
S56	3	"11319488"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/01/07 10:22
S57	34	("LED" or "light emitting") and ((P+ or n+) same (Gan or "gallium nitride")) and Al and (metal\$3 adj layer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/25 15:03
S58	11	S57 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/25 15:07
S59	210	("LED" or "light emitting") and ((P+ or n+) and (Gan or "gallium nitride")) and Al and (metal\$3 adj layer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/25 15:52
S60	127	S59 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/25 15:53
S61	122	light and S60	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/25 16:01
S62	3	("LED" or "light emitting") and (p adj transparent) and ((P+ or n+) and (Gan or "gallium nitride")) and (metal\$3 adj layer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/25 16:39

S63	0	S62 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/25 16:40
S64	598342	("LED" or "light emitting") and (p adj transparent) or ("Indium-Tin Oxide" or "ITO") or ("Cadmium-Tin Oxide" or "CTO") or ("Titanium Tungsten Nitride" or "TiWN") and ((P+ or n+) and (Gan or "gallium nitride")) and (metal\$3 adj layer) and al	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/25 16:43
S65	36	("LED" or "light emitting") and ((p adj transparent) or ("Indium-Tin Oxide" or "ITO") or ("Cadmium-Tin Oxide" or "CTO") or ("Titanium Tungsten Nitride" or "TiWN")) and ((P+ or n+) and (Gan or "gallium nitride")) and (metal\$3 adj layer) and al	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/25 16:45
S66	14	S65 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/25 16:45
S67	41	("LED" or "light emitting") and ((p adj transparent) or ("Indium-Tin Oxide" or "ITO") or ("Cadmium-Tin Oxide" or "CTO") or ("Titanium Tungsten Nitride" or "TiWN")) and ((P+ or n+) and (Gan or "gallium nitride")) and (metal\$3 adj layer)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/25 17:10
S68	14	S67 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/25 17:11

S69	121	("LED" or "light emitting") and ((p adj transparent) or ("Indium-Tin Oxide" or "ITO") or ("Cadmium-Tin Oxide" or "CTO") or ("Titanium Tungsten Nitride" or "TiWN")) and ((P+ or n+) and (Gan or "gallium nitride"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/26 08:45
S70	29	S69 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/26 08:47
S71	89	("3409809"   "3790868"   "3849707"   "4283118"   "4316208"   "4408217"   "4495514"   "4855249"   "4911102"   "4946548"   "5122845").PN. OR ("5369289").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/26 09:12
S72	59	S71 and @ad < "20021116"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/26 09:12

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